

Section 7

Schematic Diagrams

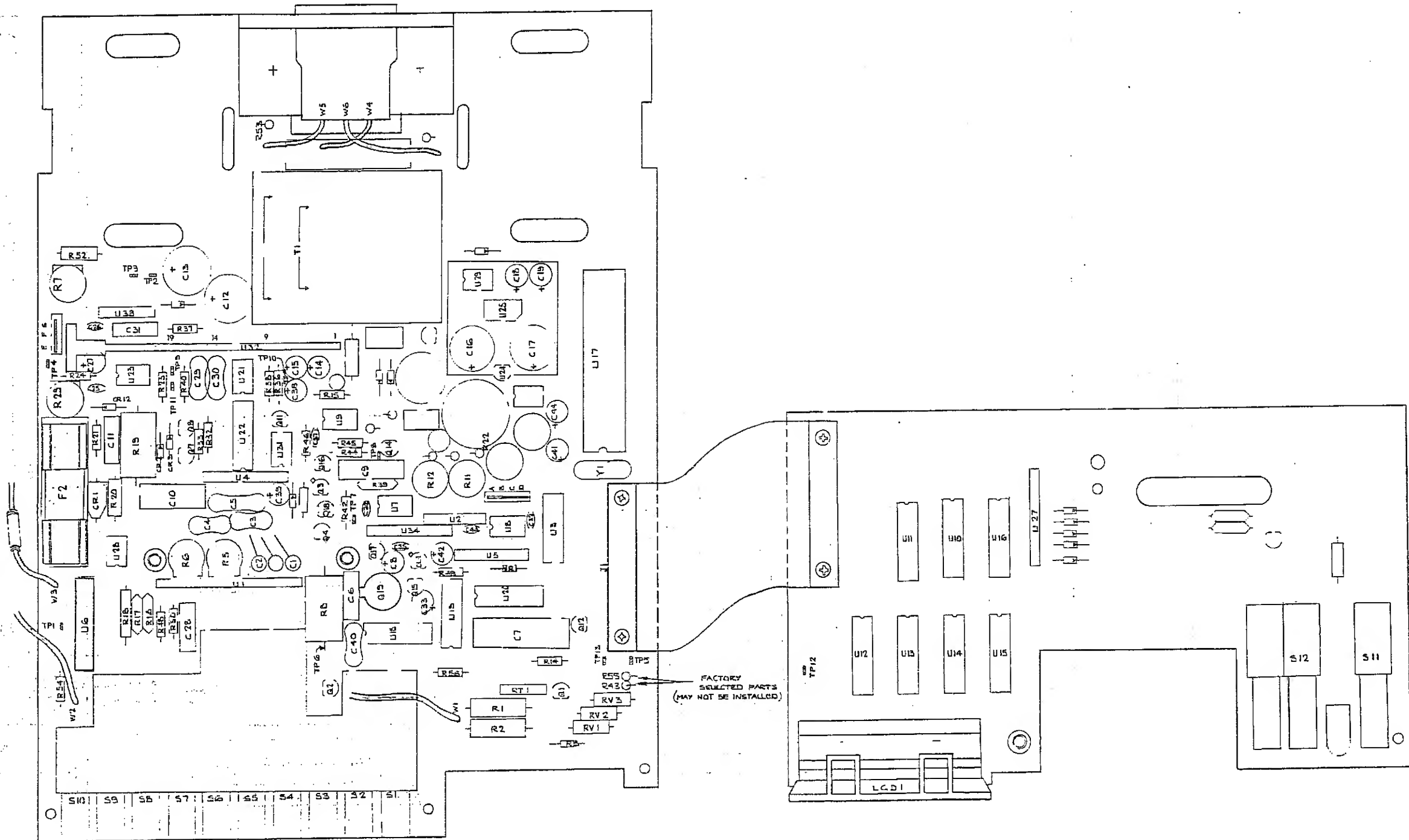
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SCHEMATIC DIAGRAMS MNEMONICS

AC X 1	AC buffer gain of 1 command
AC X 100	AC Buffer gain of 100 command
AZ	Auto Zero
BP	Back plane drive signal, 50 Hz square wave
BT	Low Battery, indicates that the rechargeable batteries in the -01 Option need recharging
dB	Decibels
DE(+R)	De-integrate plus reference used with a negative input
DE(-R)	De-integrate minus reference used with a positive input
DP	Decimal Point
EXT INT	External Interrupt, stops the counter in the microcomputer
Fa	Function inputs to microcomputer
Fb	
Fc	
Fd	
HOLD	A 52 μ sec (maximum) period immediately following INT
HV	High Voltage, comes on when the instrument measures 40V or greater
INT	Integrate
LCD	Liquid Crystal Display
LO	Defines front panel selection of a function/range requiring an A/D gain of 10
OL	A 5 msec period at the beginning of auto zero when an overrange is detected
P.O.R.	Power On Reset, a 500 msec pulse at turn on which initializes the A/D
REL	Relative, indicates that the readings displayed are relative to the input applied when the RELATIVE switch was set to ON
RNG a	Range inputs to microcomputer
RNG b	
RNG c	
S	Siemens, $1/\Omega$
ST0	Five sequential Strobe pulses
ST1	
ST2	
ST3	
ST4	
T&H	Touch & Hold
W	BCD data lines
X	
Y	
Z	Impedance
Z	

Figure 7-1. Mnemonics



FOR SCHEMATIC DIAGRAM, SEE FIGURE 7-3

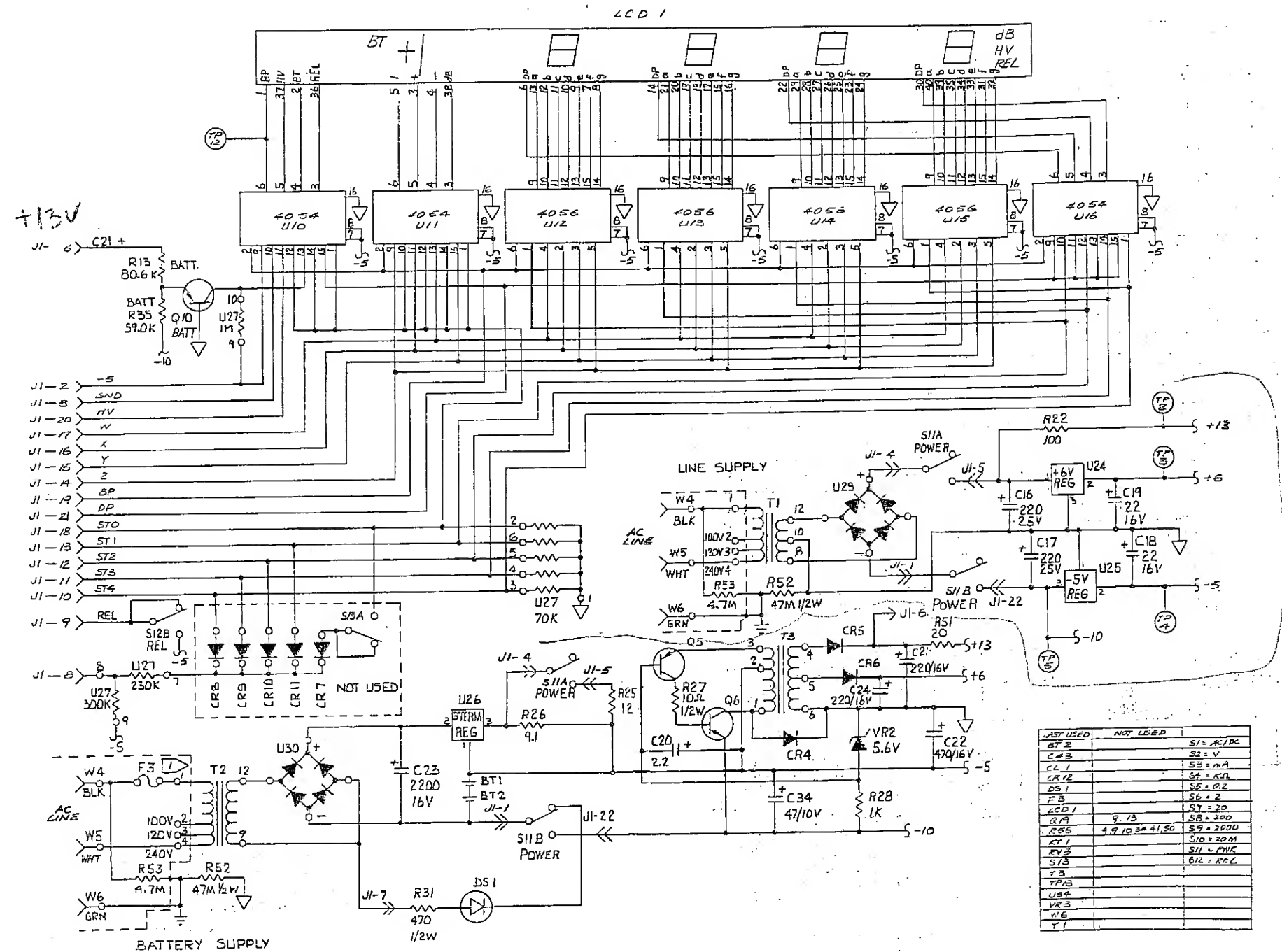
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8050A-1601

Figure 7-2. A1 Main PCB Assembly, Line Supply

SCHEMATIC DIAGRAMS

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- NOTES:
1. 1/16 A FOR 100V AND 120V CONFIGURATION.
1/32 A FOR 240V CONFIGURATION.
 2. ALL RESISTANCE VALUES ARE IN OHMS.
ALL CAPACITANCE VALUES ARE IN MICROFARADS.
 3. FACTORY SELECT.
 4. P.S. & DIGITAL COMMON
 5. SENSE COMMON
 6. ANALOG COMMON

FOR LINE VERSION COMPONENT LOCATIONS, SEE FIGURE 5-2 OR 7-2.
FOR -01 BATTERY OPTION COMPONENT LOCATIONS, SEE FIGURE 601-2 OR 7-4.
SWITCHES ARE SHOWN IN THEIR RELAXED (OUT) POSITION.

Figure 7-3. A1 Main PCB Assembly, Schematic

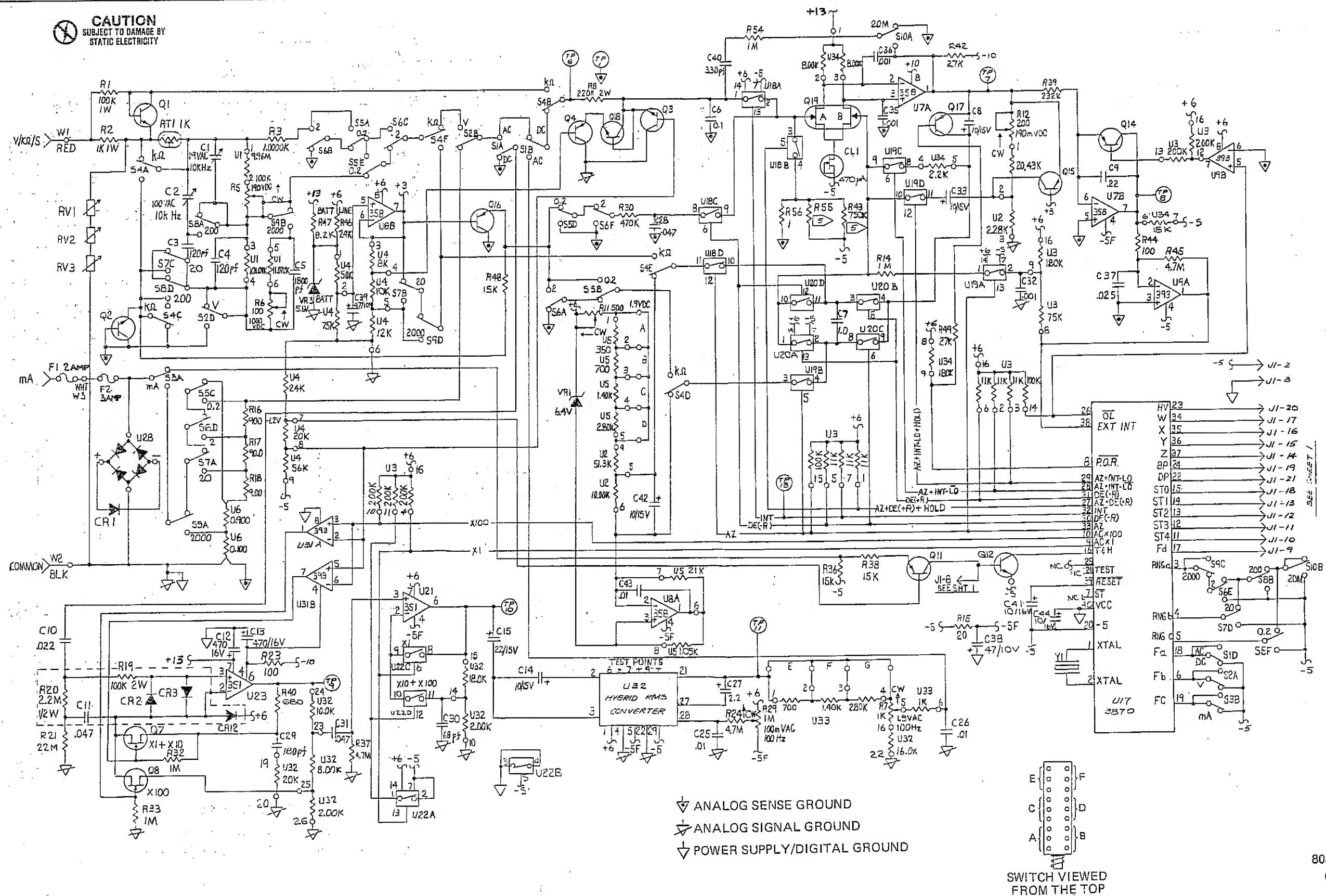
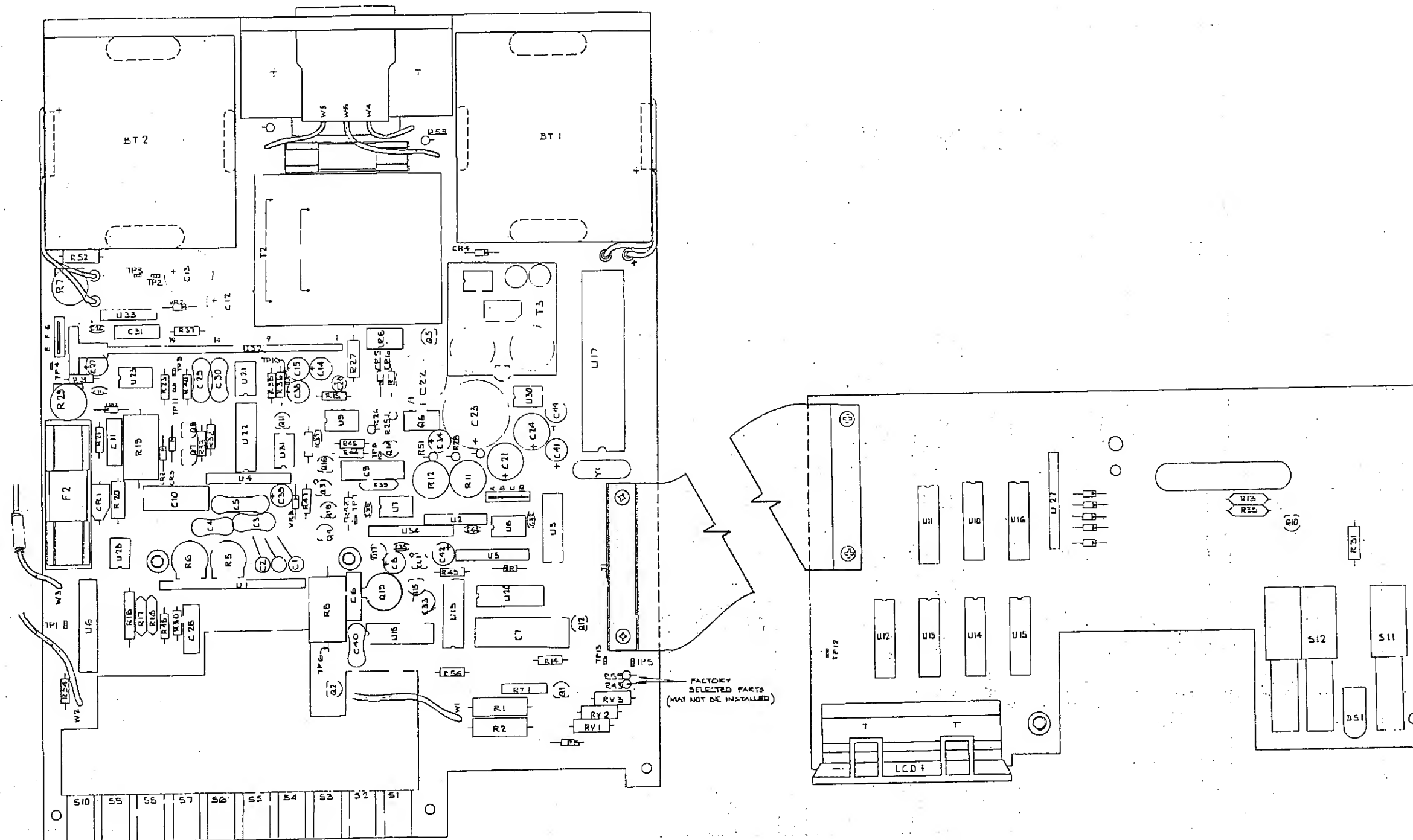


Figure 7-3. A1 Main PCB Assembly, Schematic (cont)

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FOR SCHEMATIC DIAGRAM, SEE FIGURE 7-3.

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Figure 7-4. A1 Main PCB Assembly, Battery Option -01